

Amendments to the Claims:

Please amend the claims to read as follows:

1-3. (Cancelled)

4. (Currently amended) The method of claim 10 wherein the step of co-incubation of the amyloid protein with ~~sulfated macromolecules~~heparan sulfate is in distilled water or Tris-buffered saline (pH 7.0-7.4).

5. (Cancelled)

6. (Currently amended) The method of claim 10 wherein ~~at~~the molar ratio of beta-amyloid protein to ~~sulfated macromolecule~~heparan sulfate is within a range of 1:0.5 to 1:100.

7. (Currently amended) The method of claim 6 wherein the molar ratio of beta-amyloid protein to ~~sulfated macromolecule~~heparan sulfate is about 1:5.

8. (Currently amended) The method of claim 10 wherein ~~at~~the weight ratio of beta-amyloid protein to ~~sulfated macromolecule~~heparan sulfate is within a range of 1:0.4 to 1:100.

9. (Currently amended) The method of claim 8 wherein ~~the sulfated macromolecule is heparan sulfate and~~ the weight ratio of beta-amyloid protein to heparan sulfate is about 1:8 or 1:16.

10. (Currently amended) A method for the formation of particular amyloid plaques, the method comprising *in vitro* co-incubation of beta-amyloid protein 1-40 (SEQ ID NO: 1) ~~with a sulfated macromolecule~~ for at least 3-7 days at 30-45°C, ~~wherein the sulfated macromolecule is selected from the group consisting of~~ with heparan sulfate, polyvinyl sulfonate and perlecan, ~~but excluding EHS perlecan heparan sulfate,~~ whereby spherical or compact shaped amyloid plaques are formed that demonstrate a Maltese-cross pattern when stained with Congo red and viewed under polarized light, and an amyloid star appearance when viewed by transmission electron microscopy.

11-13. (Cancelled)

14. (Original) The method of claim 10 wherein the step of co-incubation has a duration of about 7 days.

15. (Currently amended) The method of claim 10 wherein the step of co-incubation of the beta-amyloid protein with ~~sulfated macromolecules~~ heparan sulfate occurs at about 37°C.

16-17. (Cancelled)

18. (Cancelled)